

## CLAIMS

What is claimed is:

1. A method for assessing the probability of transaction success of a business transaction that will interact with one or more software applications in a target computer environment, the method comprising the steps of:

gathering defect data for the software applications in the target environment;

analyzing the defect data in the target computer environment; and

predicting a transaction failure rate for the business transaction operating within the computer environment with the one or more other software applications.

2. The method of claim 1, wherein the gathered defect data includes unit test data.

3. The method of claim 1, wherein the gathered defect data includes functional test data.

4. The method of claim 1, wherein the gathered defect data includes system test data.

5. The method of claim 1, wherein the gathered defect data includes translation test data.

6. The method of claim 1, wherein the gathered defect data includes performance test data.

7. The method of claim 1, wherein the gathered defect data includes integration test data.

8. The method of claim 1, further comprising the step of outputting the predicted transaction failure rate.

9. A system for assessing the probability of business transaction success that will interact with one or more software applications in a target computer environment, the system comprising:

- defect data-gathering logic for gathering defect data for the first software application defect data;

- defect analysis logic for analyzing the defect data in view of the one or more software applications and the target computer environment; and

- failure prediction logic for predicting a transaction failure rate for the business transaction operating within the computer environment with the one or more other software applications.

10. The system of claim 9, wherein the gathered defect data includes unit test data.

11. The system of claim 9, wherein the gathered defect data includes functional test data.

12. The system of claim 9, wherein the gathered defect data includes system test data.

13. The system of claim 9, wherein the gathered defect data includes translation test data.

14. The system of claim 9, wherein the gathered defect data includes performance test data.

15. The system of claim 9, wherein the gathered defect data includes integration test data.

16. The system of claim 9, wherein the system further outputs the predicted business transaction failure rate.

17. A system for assessing the probability of transaction success of a business transaction that will interact with one or more other software applications in a target computer environment, the system including:

a means for gathering defect data for the software applications in the target computer environment;

a means for analyzing the defect data in view of the one or more other software applications and the target computer environment; and

a means for predicting a transaction failure rate for the first software application operating within the computer environment with the one or more other software applications.